

Project2.SQL - ALMAZIDI\Project2 (ALMAZIDI\mozam (64)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

Project2.tsql - ALMAZIDI\mozam (64) -> project1.tst SQLQuery1.sql - A... (ALMAZIDI\mozam (59))

Object Explorer

Connect -> ALMAZIDI (SQL Server 15.0.2000.5 - ALMazidi\mozam)

Databases System Databases Database Snapshots

- AirlinerDB
- BankDBB
- Banking
- CollegeDB11
- Company
- Company\_SD
- company0B2
- company0B8
- CompanyDBB
- CompanyDDB
- CompanyDDBB
- CompanyDDBB8
- dataDB
- exercise
- hotel
- HotelDB
- LibraryDB
- LibraryDB2
- Database Diagrams
- Tables
- System Tables
- FileTables
- Table-valued Functions
- Graph Tables
- rbo.Book
- rbo.Library
- rbo.Loan
- rbo.Members
- rbo.Payment
- rbo.Return
- rbo.Review
- rbo.Staff
- Views
- External Resources
- Synonyms
- Programmability
- Service Broker
- Storage
- Security
- TrainingCompany
- TrainingCompanydb
- Security
- Server Objects
- Replication

Properties

Current connection parameters

**Aggregate Status**

- Connection failures: 0
- Elapsed time: 00:00:00.16
- Finish time: 12/30/2023 12:57:08 PM
- Name: ALMAZIDI
- Rows returned: 0
- Start time: 12/30/2023 12:57:08 PM
- State: Open

**Connection**

- Connection name: ALMAZIDI (ALMAZIDI\mozam)
- Connection Details
- Connection timeout: 00:00:00.16
- Connection encryption: Not encrypted
- Connection finish time: 12/30/2023 12:57:08 PM
- Connection rows returned: 0
- Connection start time: 12/30/2023 12:57:08 PM
- Display name: ALMAZIDI
- Login name: ALMAZIDI\mozam
- Server name: ALMAZIDI
- Server version: 15.0.2000
- Session Tracing ID: 64
- SPID: 64

Results

```
SELECT staff.*  
      ,COUNT(Libray.lib) AS TotalLoans,  
      AVG(r.Rating) AS AvgRating  
  FROM Loan l ON b.BookID = l.BookID  
  LEFT JOIN Review r ON b.BookID = r.BookID  
 GROUP BY BookID, b.Title, b.ISBN, b.Genre  
 HAVING COUNT(l.LoanID) >= 3;  
  
--Member Reading History....
```

Title	ISBN	Genre	TotalLoans	AvgRating

Query executed successfully.

ALMAZIDI (15.0 RTM) ALMAZIDI\mozam (64) Project2 00:00:00 0 rows

Ln 214 Col 1 Ch 1 IN

Reply 79F Windy

Search

12:58 PM 12/30/2023

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Project2.SQL - ALMAZIDI\Project2 (ALMAZIDI\mozam (64)) - Microsoft SQL Server Management Studio

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Project2.tsql - ALMAZIDI\mozam (64) -> project1.tst SQLQuery1.sql - A... (ALMAZIDI\mozam (59))

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Connect -> ALMAZIDI (SQL Server 15.0.2000.5 - ALMazidi\mozam)

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- rbo.Book
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- TrainingCompanydb
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- Server Objects
- Replication

Properties

Current connection parameters

**Aggregate Status**

- Connection failures: 0
- Elapsed time: 00:00:00.05
- Finish time: 12/30/2023 1:03:32 PM
- Name: ALMAZIDI
- Rows returned: 15
- Start time: 12/30/2023 1:03:32 PM
- State: Open

**Connection**

- Connection name: ALMAZIDI (ALMAZIDI\mozam)
- Connection Details
- Connection timeout: 00:00:00.05
- Connection encryption: Not encrypted
- Connection finish time: 12/30/2023 1:03:32 PM
- Connection rows returned: 15
- Connection start time: 12/30/2023 1:03:32 PM
- Display name: ALMAZIDI
- Login name: ALMAZIDI\mozam
- Server name: ALMAZIDI
- Server version: 15.0.2000
- Session Tracing ID: 64
- SPID: 64

Results

```
SELECT staff.*  
      ,b.ISBN  
      ,b.Genre  
      ,Count(l.LoanID) AS TotalLoans,  
      AVG(r.Rating) AS AvgRating  
  FROM Loan l ON b.BookID = l.BookID  
  LEFT JOIN Review r ON b.BookID = r.BookID  
 GROUP BY BookID, b.Title, b.ISBN, b.Genre  
 HAVING COUNT(l.LoanID) >= 3;  
  
--Member Reading History....  
  
SELECT *  
  FROM Members m  
 WHERE m.MemberID = l.MemberID  
  JOIN rbo.Book b ON l.BookID = b.BookID  
  LEFT JOIN Review r ON m.MemberID = r.MemberID AND b.BookID = r.BookID  
 ORDER BY FullName, l.LoanDate;
```

MemberName	BookTitle	LoanDate	ReturnDate	Rating	Comment
1. Basma AL-Rahy	Introduction to Algorithms	2024-01-12	NULL	7	Very useful for clean coding practices
2. Basma AL-Rahy	Cloud Computing	2024-01-10	2024-01-05	NULL	NULL
3. Abeer Al-Rashid	Physics	2024-01-10	2024-01-24	8	Excellent reference book
4. Abeer Al-Rashid	Machine Learning Guide	2024-01-18	NULL	NULL	NULL
5. Fatima Al-Mosai	Database Systems	2024-01-20	2024-01-18	5	Excellent reference book
6. Fatima Al-Mosai	Web Development Basics	2024-01-12	2024-01-26	NULL	NULL
7. Hamed AL-Balushi	Artificial Intelligence	2024-02-01	2024-02-14	NULL	NULL
8. Hassan AL-Balushi	Software Engineering	2024-02-10	NULL	NULL	NULL
9. Houda AL-Rahy	Computer Networks	2024-02-05	NULL	NULL	NULL
10. John A. Salim	Discrete Mathematics	2024-01-15	NULL	NULL	NULL
11. Mostafa Al-Sabri	Operating Systems Concepts	2024-01-15	NULL	NULL	NULL
12. Nour Al-Masri	Digital Electronics	2024-03-22	NULL	NULL	NULL
13. Omer Al-Semari	Data Science Handbook	2024-02-07	2024-02-21	NULL	NULL
14. Saleh Al-Balushi	Open Code	2024-01-07	NULL	4	Very useful for clean coding practices
15. Salim Al-Balushi	Cyber Security Essentials	2024-02-15	NULL	NULL	NULL

Query executed successfully.

ALMAZIDI (15.0 RTM) ALMAZIDI\mozam (64) Project2 00:00:00 15 rows

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Reply 79F Windy

Search

1:03 PM 12/30/2023

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Project2.SQL - ALMAZIDI\Project2 (ALMAZIDI\mozam (64))

Object Explorer

ALMAZIDI (SQL Server 15.0.2000.5 - ALMAZIDI\mozam)

Databases

System Databases

FileTables

Database Snapshots

AirplaneDB

BankDB

Banking

CollegeDB

CollegeDB11

Company

Company\_SD

company0B2

company0B8

CompanyDB

CompanyDB8

CompanyEmployees

dataDB

exercise

hotel

HotelDB

libraryDB

libraryDB2

Tables

System Tables

FileTables

Table Samples

Graph Tables

dbo.Book

dbo.Library

dbo.Loan

dbo.Members

dbo.Payment

dbo.Pesone

dbo.Pesone

dbo.Staff

Views

External Resources

Synonyms

Programmability

Service Broker

Storage

Security

TrainingCompany

TrainingCompanydb

Security

Server Objects

Replication

Properties

Current connection parameters

**Aggregate Status**

Connection name: ALMAZIDI\ALMAZIDI\mozam

Elapsed time: 00:00:00.559

Fetch time: 12/30/2023 1:06:27 PM

Name: ALMAZIDI

Rows returned: 7

Start time: 12/30/2023 1:06:27 PM

State: Open

**Connection**

Connection name: ALMAZIDI\ALMAZIDI\mozam

**Connection Details**

Connection type: ODBC

Connection time: 03:00:00:039

Connection encryption: Not encrypted

Connection finish time: 12/30/2023 1:06:27 PM

Connection rows returned: 7

Connection start time: 12/30/2023 1:06:27 PM

Connection state: Open

Display name: ALMAZIDI

Login name: ALMAZIDI\mozam

Server name: ALMAZIDI

Server version: 15.0.2000

Session Tracing ID: 64

Result Messages

```

SELECT
    Genre,
    COUNT(1) LoanID AS TotalLoans,
    SUM(ISNULL(p.Amount, 0)) AS TotalFines,
    AVG(ISNULL(p.Amount, 0)) AS AvgFinePerLoan
FROM Loan l
JOIN Book b ON l.BookID = b.BookID
LEFT JOIN Review r ON l.MemberID = r.MemberID AND b.BookID = r.BookID
ORDER BY r.FullName, l.LoanDate;

```

Genre	TotalLoans	TotalFines	AvgFinePerLoan
Data Science	1	0.00	0.000000
Electronics	1	0.00	0.0000
Mathematics	1	0.00	0.000000
Programming	3	4.00	1.333333
Science	1	3.00	3.000000
Security	1	0.00	0.000000
Technology	7	10.00	1.428571

Query executed successfully.

ALMAZIDI (15.0 RTM) ALMAZIDI\mozam (64) Project2 00:00:00 | 7 rows

Rainy days ahead

Ready

Ln 239 Col 1 Ch 1 ING

12:06 PM 12/30/2023